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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/600,330	06/23/2003	Kyung-Geun Lee	1293.1633	6586		
49455	7590	07/30/2008	EXAMINER			
STEIN, MCEWEN & BUI, LLP 1400 EYE STREET, NW SUITE 300 WASHINGTON, DC 20005				DANIELSEN, NATHAN ANDREW		
ART UNIT		PAPER NUMBER				
2627						
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/600,330	LEE ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Nathan Danielsen	2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 30 April 2008.

2a) This action is **FINAL**.                            2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1,9,11,12,21,23,24,26 and 32-38 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1,9,11,12,21,23,24,26 and 32-38 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_.

**DETAILED ACTION**

1. Claims 1, 9, 11, 12, 21, 23, 24, 26, and 32-38 are pending. Claims 3, 14, and 19 have been canceled in applicant's amendment filed 23 February 2007. Claims 2, 4-7, 13, 15-18, 25, and 27-30 have been canceled in applicant's amendment filed 07 August 2007. Claims 8, 10, 20, 22, and 31 have been canceled in applicant's amendment filed 10 December 2007.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 9, 11, 12, 21, 23, 24, 26, 32, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Satoh et al (US Patent 5,870,374; hereinafter Satoh), in view of Ohno et al (US Patent Application Publication 2002/0024923; hereinafter Ohno).

Regarding claims 1, 12, and 32, Satoh discloses an information storage medium (and associated methods (see col. 3, line 65 through col. 4, line 5)) comprising:

a user data area provided with a sequence of basic recording units to record user data (tracks 6a and 6b in figures 3 and 4),

wherein information about the user data area, where user data is recorded, is recorded in a portion of each basic recording unit of the user data area (col. 3, lines 44-56), and

wherein the information about the user data area includes layer information of the information storage medium recorded in the form of consecutive patterns of identical intervals or in the form of different patterns of different sized intervals (figure 5 and col. 3, lines 44-56; where the combination of SYNC, AM, TA, SA, and LA data, when represented as NRZI data in the form of marks and spaces (or pits), is inherently comprised of different

patterns of different sized intervals, if only on the basis of LA data being different for each layer).

However, Satoh fails to disclose where a portion of each basic recording unit of the user data area is defined as at least one of a run-in area and a run-out area of each basic recording unit of the user data area.

In the same field of endeavor, Ohno discloses where a portion of each basic recording unit of the user data area is defined as at least one of a run-in area and a run-out area of each basic recording unit of the user data area (¶ 17).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the data structure of Satoh with that of Ohno, for protecting user data when recording data (¶s 17 and 18).

Regarding claims 9 and 21, Satoh, in view of Ohno, discloses everything claimed, as applied to claims 1 and 12. Additionally, Satoh discloses where the information about the user data area is recorded using addresses (col. 3, lines 44-56).

Regarding claims 11 and 23, Satoh, in view of Ohno, discloses everything claimed, as applied to claims 1 and 12. Additionally, Satoh discloses where the storage layer information is recorded using addresses (col. 3, lines 44-56).

Regarding claims 24 and 26, Satoh, in view of Ohno, discloses everything claimed, as applied to claim 1. Additionally, Satoh discloses where the information storage medium is one of recordable and reproduction-only optical discs (col. 3, line 65 through col. 4, line 5).

Regarding claim 33, Satoh, in view of Ohno, discloses everything claimed, as applied to claim 32. Additionally, Satoh discloses recognizing a layer of the storage medium based on the accessed information (col. 3, line 65 through col. 4, line 5), wherein the operating of the storage medium includes recording and/or reproducing data with respect to the layer (col. 3, line 65 through col. 4, line 5).

4. Claims 34-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Satoh, in view of Ohno, and further in view of Ito et al (US Patent 5,881,032; hereinafter Ito).

Regarding claims 34 and 35, Satoh, in view of Ohno, discloses everything claimed, as applied to claims 33 and 32. Additionally, Satoh discloses where the recognizing of the layer comprises recognizing the layer in response to the accessed information (col. 3, line 65 through col. 4, line 5). However, Satoh fails to disclose where the accessed information belongs to a predetermined group of addresses.

In the same field of endeavor, Ito discloses where the accessed information belongs to a predetermined group of addresses (col. 11, lines 31-47).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the data format of Satoh with that of Ito, for the purpose of identifying the recording layer of each sector (col. 11, lines 45-47).

Regarding claim 36, Satoh, in view of Ohno and Ito, discloses everything claimed, as applied to claim 35. Additionally, Satoh discloses where the identifying of the desired layer comprises:

recognizing a storage layer of the storage medium as the desired layer in response to the accessed information (col. 3, line 65 through col. 4, line 5); and

in response to the accessed information not being the desired information, accessing another storage layer of the storage medium so as to determine whether accessed information thereof is desired (col. 4, lines 6-21).

However, Satoh, in view of Ohno, fails to disclose where the accessed information belongs to a desired/predetermined group of addresses.

In the same field of endeavor, Ito discloses where the accessed information belongs to a desired/predetermined group of addresses (col. 11, lines 31-47).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the data format of Satoh with that of Ito, for the purpose of identifying the recording layer of each sector (col. 11, lines 45-47).

Regarding claim 37, Satoh, in view of Ohno and Ito, discloses everything claimed, as applied to claim 36. Additionally, Satoh discloses where the operating of the storage medium includes recording and/or reproducing data with respect to the desired layer (col. 3, line 65 through col. 4, line 21).

Regarding claim 38, Satoh, in view of Ohno and Ito, discloses everything claimed, as applied to claim 32. Additionally, Satoh discloses the steps of:

identifying storage layers of the storage medium (col. 3, line 65 through col. 4, line 47), wherein the identifying of the storage layers comprises:  
recognizing a first layer of the storage layers in response to the accessed information (col. 3, line 65 through col. 4, line 21);  
in response to the accessed information not being the desired information, accessing a second layer of the storage layers so as to determine whether accessed information thereof is the desired information (col. 4, lines 6-21);  
recognizing the second layer of the storage layers in response to accessed information thereof being the desired information (col. 4, lines 6-21); and  
in response to the accessed information of the second layer not being the desired information, accessing another layer of the storage layers so as to determine whether accessed information thereof is the desired information (col. 4, lines 39-47).

However, Satoh, in view of Ohno, fails to disclose where the accessed information belongs to a desired/predetermined group of addresses.

In the same field of endeavor, Ito discloses where the accessed information belongs to a desired/predetermined group of addresses (col. 11, lines 31-47).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the data format of Satoh with that of Ito, for the purpose of identifying the recording layer of each sector (col. 11, lines 45-47).

***Citation of Relevant Prior Art***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - a. Victora et al (US Patent 5,715,225) disclose a multilayer disc having layer information stored in the form of consecutive patterns of identical intervals (see at least col. 3, lines 40-52);
  - b. Horie (US Patent 6,671,249) discloses an optical disc having packets, such as those in Ohno, additionally, having addresses in component blocks thereof; and
  - c. Sims, III (US Patent 6,084,839) discloses an optical disc having packets, such as those in Ohno, comprising blocks/frames containing individual frame address (see at least col. 2, lines 13-34).

***Response to Arguments***

6. Applicant's arguments, filed 30 April 2008, with respect to the rejection(s) of claim(s) 1, 12, and 32 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Satoh and Ohno.

***Closing Remarks/Comments***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan Danielsen whose telephone number is (571)272-4248. The examiner can normally be reached on Monday-Friday, 9:00 AM - 5:00 PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2627

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nathan Danielsen  
07/28/2008

/William J. Klimowicz/  
Primary Examiner, Art Unit 2627